

# System, Method, and Product for Derivative-Based Wagering Racing Ap- plication

## Abstract

A computer-based data processing system is described that employs at least one remote sensing device or system capable of providing time-indexed 2D or 3D spatial location, and subsequently uses the location data and other measured or derived data to automatically detect, identify, extract and characterize performance features and outcomes for the purposes of derivative-based wagering and gaming. This patent describes a wagering model and user interface application which is in part similar to derivative-based financial securities trading, with specific application to sports wagering by employing real-time spatial tracking capability. A specific use of the present invention is to extend the presently established pari-mutuel wagering and totalisator systems used for thoroughbred horse racing. Additionally, the present invention has similar application to other sports as well as other performance-based events.